🧬 NCBI **Blast 2 Sequences results**
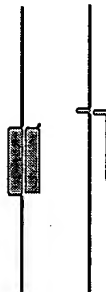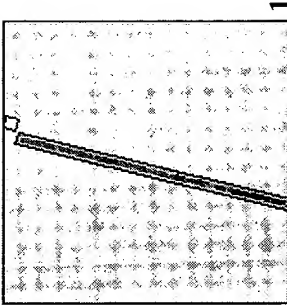
PubMed   Entrez   BLAST   OMIM   Taxonomy   Structure

BLAST 2 SEQUENCES RESULTS VERSION BLASTN 2.2.10 [Oct-19-2004]

Match: [1   ] Mismatch: [-2   ] gap open: [5   ] gap extension: [2   ]
x_dropoff: [50   ] expect: [10.000] wordsize: [11   ] Filter ☑ [Align]

Sequence 1 lcl|seq_1 **Length 8509** (1 .. 8509)
Sequence 2 lcl|seq_2 **Length 2112** (1 .. 2112)

NOTE: The statistics (bitscore and expect value) is calculated based on the size of nr database

NOTE: If protein translation is reversed, please repeat the search with reverse strand of the query sequence

```
Score = 3857 bits (2006), Expect = 0.0
Identities = 2006/2006 (100%)
Strand = Plus / Plus
```

```
Query: 2955  ggcaatgggtcgaaattcatagaatttgtgaggtgcgtagcggctctgacaggggtg  3014
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 1     ggcaatgggtcgaaattcatagaatttgtgaggtgcgtagcggctctgacaggggtg  60

Query: 3015  ctgcgcggagatctctggtctcaggtaggcgacaatggagaggtgttagttgcccccctg  3074
```

Blast Result

```
Sbjct:   61  ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
             ctgccgcggagatctctgtggtctcagtcggtaggcgcacaatggagaggtgttagttgccccctg  120

Query: 3075  tatcgctctctgcgtggcgcattgggtcatcctgccggacatgatattccgctagag  3134
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  121  tatcgctctctgcgtggcgcattgggtcatcctgccggacatgatattccgctagag  180

Query: 3135  gattactgatagtttctgcctgtcgggcttgtcgggcttgtcgggcttgtc  3194
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  181  gattactgatagtttctgcctgtcgggcttgtcgggcttgtcgggcttgtc  240

Query: 3195  gggcctgtccctcttgtccgcctgtcctcacttttcacaatcaaaaaatgggcgaagc  3254
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  241  gggcctgtccctcttgtccgcctgtcctcacttttcacaatcaaaaaatgggcgaagc  300

Query: 3255  ccttcttgttctatagttcttatagttcatacgaaaattacacataattatcaatagctt  3314
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  301  ccttcttgttctatagttcttatagttcatacgaaaattacacataattatcaatagctt  360

Query: 3315  attcgcttaaaagggagtaattgggccgcaaagggagt  3374
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  361  attcgcttaaaagggagtaattgggccgcaaagggagt  420

Query: 3375  aattgggccgcaaaagggagtaattggccgatatcggttgttttacatgggggaggaatcc  3434
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  421  aattgggccgcaaaagggagtaattggccgatatcggttgttttacatgggggaggaatcc  480

Query: 3435  ccttaatcatttctccccatgggaaagacaacacaagtggccgcagaccggggccttcgac  3494
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  481  ccttaatcatttctccccatgggaaagacaacacaagtggccgcagaccggggccttcgac  540

Query: 3495  cagacaaaaactgtgctccctgccgaggtggcgagagggtctatatgcgcaatccgccc  3554
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  541  cagacaaaaactgtgctccctgccgaggtggcgagagggtctatatgcgcaatccgccc  600
```

Blast Result

```
Query:  3555  cgcctgcaggcgcgctcaagctcatgtgcatttaatgatagccactgcgggcggccgcatggct  3614
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  601   cgcctgcaggcgcgctcaagctcatgtgcatttaatgatagccactgcgggcggccgcatggct  660

Query:  3615  gatgatgtgcgccatgaaatgcggctggccgacattcgcgcacggcatgaaaaac  3674
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  661   gatgatgtgcgccatgaaatgcggctggccgacattcgcgcacggcatgaaaaac  720

Query:  3675  catgaccgtgagagccgctgaccccgctgttcgaggagctagccgctgcggtgttgacccat  3734
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  721   catgaccgtgagagccgctgaccccgctgttcgaggagctagccgctgcggtgttgacccat  780

Query:  3735  gatgaccctgcaaagatgatcgtgacagtcggcggcttggtcgatgaggcgcgaatagac  3794
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  781   gatgaccctgcaaagatgatcgtgacagtcggcggcttggtcgatgaggcgcgaatagac  840

Query:  3795  taccgccaggaggcaagcggcgaactcctagtgacgtggaccttccggagtacattccgt  3854
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  841   taccgccaggaggcaagcggcgaactcctagtgacgtggaccttccggagtacattccgt  900

Query:  3855  cgtatggcggcggagtcgaaccactggccattctcgaccgtcaaacggtattccatctc  3914
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  901   cgtatggcggcggagtcgaaccactggccattctcgaccgtcaaacggtattccatctc  960

Query:  3915  ggtagtaagtattccgtgctgtgttccagcacgtctctagtctccgccaatcttgatcgg  3974
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  961   ggtagtaagtattccgtgctgtgttccagcacgtctctagtctccgccaatcttgatcgg  1020

Query:  3975  atgagcgcgaaaacctttacggtccccgagttgcgggcgctccttggagtgcccgaggga  4034
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1021  atgagcgcgaaaacctttacggtccccgagttgcgggcgctccttggagtgcccgaggga  1080

Query:  4035  aagatggttcgttggaacgacgttaacagatttgctctcaaacctgcactgatgagatc  4094
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1081  aagatggttcgttggaacgacgttaacagatttgctctcaaacctgcactgatgagatc  1140
```

Blast Result

```
Query:  4095  aaccatttatcgcgtctgacattgacggcaaagccgaccaagattggccgtagcgtggca  4154
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1141  aaccatttatcgcgtctgacattgacggcaaagccgaccaagattggccgtagcgtggca  1200

Query:  4155  agtgtgactataggctgggaagtgaaagacgacccaaccgtcgccaggcgcgagctggcg  4214
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1201  agtgtgactataggctgggaagtgaaagacgacccaaccgtcgccaggcgcgagctggcg  1260

Query:  4215  ggttccaaggtcggtcgagatgctcgtcgcagaggggcagcggaaacgatagcccctcc  4274
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1261  ggttccaaggtcggtcgagatgctcgtcgcagaggggcagcggaaacgatagcccctcc  1320

Query:  4275  ttcccagaagcgggcgggatcacctacagtccacgttggctgagctgaaacgctctgct  4334
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1321  ttcccagaagcgggcgggatcacctacagtccacgttggctgagctgaaacgctctgct  1380

Query:  4335  ggcagcaacaaggacaacgatctgatcgcctcagacttccggcgtttctgtcgggagaga  4394
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1381  ggcagcaacaaggacaacgatctgatcgcctcagacttccggcgtttctgtcgggagaga  1440

Query:  4395  ggcgtgcgtctgacgctgcaaacatcgaaaactgtttttagatttctgcgcaaaggta  4454
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1441  ggcgtgcgtctgacgctgcaaacatcgaaaactgtttttagatttctgcgcaaaggta  1500

Query:  4455  gggaaggtttgagtttgaggtatttcaccgcaatagtgttaaatgactttcgtgaaacg  4514
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1501  gggaaggtttgagtttgaggtatttcaccgcaatagtgttaaatgactttcgtgaaacg  1560

Query:  4515  atgtgcaatatagcggtaagactatgaaatacacggctggacaggctgcaaaagcaacgg  4574
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1561  atgtgcaatatagcggtaagactatgaaatacacggctggacaggctgcaaaagcaacgg  1620

Query:  4575  gtgtggcgaccgcaaccatcactcgggcgctaaaaagcggtaaaatttccggtaaaaaag  4634
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1621  gtgtggcgaccgcaaccatcactcgggcgctaaaaagcggtaaaatttccggtaaaaaag  1680
```

Blast Result

```
Query:  4635  atgaatctggggcatgggtttatagatcctgcagaattgcacagagtgtttcctcccattt  4694
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1681  atgaatctggggcatgggtttatagatcctgcagaattgcacagagtgtttcctcccattt  1740

Query:  4695  caaagaaatacaccgaaacacctaacacgcaagtatatggtaagcgtgatgaaacacatg   4754
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1741  caaagaaatacaccgaaacacctaacacgcaagtatatggtaagcgtgatgaaacacatg   1800

Query:  4755  aaatgacctcagaaatcagcgcattagagcgtgaagttcggacttacgcgatgctttat   4814
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1801  aaatgacctcagaaatcagcgcattagagcgtgaagttcggacttacgcgatgctttat   1860

Query:  4815  ctgatgccaggaggaggatcgcgcgacaaatggccgacatggccgagcgtctttcaattcat  4874
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1861  ctgatgccaggaggaggatcgcgcgacaaatggccgacatggccgagcgtctttcaattcat  1920

Query:  4875  caccgatgagagaggagaagaccgccccctcaaaaacaaagatggtggaagatattctgat  4934
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  1921  caccgatgagagaggagaagaccgccccctcaaaaacaaagatggtggaagatattctgat  1980

Query:  4935  cctgggcttcaggagcctgcctta  4960
              ||||||||||||||||||||||||
Sbjct:  1981  cctgggcttcaggagcctgcctta  2006

 Score =  208 bits (108), Expect = 2e-49
 Identities = 108/108 (100%)
 Strand = Plus / Plus


Query:  5364  tactggcggaaaaacgcgatattgaggcgcacaggcccgcactttagaggcggaagcctata  5423
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  2005  tactggcggaaaaacgcgatattgaggcgcacaggcccgcactttagaggcggaagcctata  2064

Query:  5424  acgagtaccaaaacactagaagccagattgaggaaaataggggaacgtg  5471
```
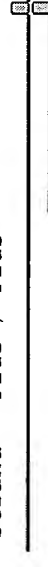
Blast Result

```
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 2065 acgagtaccaaaacactagaagccagattgaggaaaataggaacgtg 2112
```

CPU time: 0.05 user secs.   0.02 sys. secs   0.07 total secs.

```
Lambda    K      H
  1.33   0.621   1.12

Gapped
Lambda    K      H
  1.33   0.621   1.12
```

Matrix: blastn matrix:1 -2
Gap Penalties: Existence: 5, Extension: 2
Number of Sequences: 1
Number of Hits to DB: 787
Number of extensions: 21
Number of successful extensions: 15
Number of sequences better than 10.0: 1
Number of HSP's better than 10.0 without gapping: 1
Number of HSP's gapped: 3
Number of HSP's successfully gapped: 2
Number of extra gapped extensions for HSPs above 10.0: 0
Length of query: 8509
Length of database: 12,527,565,053
Length adjustment: 28
Effective length of query: 8481
Effective length of database: 12,527,565,025
Effective search space: 106246278977025
Effective search space used: 106246278977025
Neighboring words threshold: 0
Window for multiple hits: 0
X1: 11 (21.1 bits)
X2: 26 (50.0 bits)
X3: 26 (50.0 bits)
S1: 12 (23.8 bits)
S2: 23 (44.9 bits)
```

12/29/2004